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**ASSESSMENT OF THE RISK OF DEATH AND OCCURRENCE  
OF THE CORONAVIRUS DISEASE AMONG MEDICAL WORKERS  
IN UKRAINE IN 2020–2023**

**ОЦІНКА РИЗИКУ СМЕРТІ ТА ВИНИКНЕННЯ  
ЗАХВОРЮВАННЯ НА КОРОНАВІРУСНУ ХВОРОБУ СЕРЕД  
МЕДИЧНИХ ПРАЦІВНИКІВ В УКРАЇНІ 2020–2023 РР.**

**Korolenko V. V.**

*Assistant Professor at the Epidemiology  
and Evidence-based Medicine  
Department,  
Bogomolets National  
Medical University  
Kyiv, Ukraine*

**Короленко В. В.**

*асистент кафедри епідеміології  
та доказової медицини  
Національний медичний університет  
імені О. О. Богомольця  
м. Київ, Україна*

**Mohort H. A.**

*Candidate of Medical Sciences,  
Associate Professor at the Epidemiology  
and Evidence-based Medicine  
Department,  
Bogomolets National  
Medical University  
Kyiv, Ukraine*

**Мохоорт Г. А.**

*кандидат медичних наук,  
доцент кафедри епідеміології  
та доказової медицини,  
Національний медичний університет  
імені О. О. Богомольця  
м. Київ, Україна*

The risk of infection by the SARS-CoV-2 virus among medical workers was a concern in the early stages of the pandemic, in particular Dr. Li Wenliang, the Wuhan ophthalmologist who first raised concerns about the disease to the international community, died of the disease, probably contracted while on the job. [1]. As of May 8, 2020, 152,888 cases of SARS-CoV-2 infection, including 1,413 deaths, were registered worldwide among medical professionals. The mortality rate of medical workers was 0.52% [2].

According to the data of the Public Health Center of the Ministry of Health of Ukraine, as of May 4, 2023, 154,394 confirmed cases of COVID-19 among medical workers were registered in Ukraine, of which 1,256 were fatal [3]. Health workers can be exposed to occupational hazards that pose a threat of illness and even death.

As the level of transmission of SARS-CoV-2 in the population increases, the risk of occupational exposure among healthcare workers increases [4].

A systematic review described that occupational risk for healthcare workers may increase in certain clinical settings, including poor hand hygiene, long working hours, incorrect use or lack of personal protective equipment [5].

Some healthcare workers may be at greater risk of developing severe coronavirus disease due to chronic illness, older age, or pregnancy [6].

The aim of the study is to examine the chances of death and incidence of coronavirus disease among medical workers during the COVID-19 pandemic in Ukraine.

The following research methods were used in the work: epidemiological, statistical. We conducted a case-control analytical study on the chances of getting sick and dying from a coronavirus infection among doctors and non-doctors (other population) in Ukraine during the COVID-19 pandemic (2020–2023) and calculated the odds ratio (OR).

Data on the number of laboratory-confirmed cases of COVID-19 and deaths, in particular among medical workers, were obtained from the website of the Public Health Center of the Ministry of Health of Ukraine. Information on medical staff and population from the website of the State Statistics Service of Ukraine. Calculations were made in Microsoft Excel 2019.

The chance of a medical worker dying is: in 2020  $OR=0.49$ , in 2021  $OR=0.38$ , in 2022  $OR=0.39$ , for the entire period of the pandemic  $OR=0.39$ . Therefore, doctors have a lower chance of dying compared to other population groups.

The chance of a medical worker getting sick is: in 2020  $OR=5.63$ , in 2021  $OR=4.0$ , in 2022  $OR=4.5$ . Therefore, the chances of getting sick among medical workers are greater than among other population groups.

Medical personnel in Ukraine are less likely to die from a coronavirus infection, probably because they are better vaccinated than other population groups. At the same time, doctors have a higher chance (occupational risk) of getting sick despite a better level of vaccination, better protection with personal protective equipment and, in general, greater awareness of the new coronavirus disease.

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